

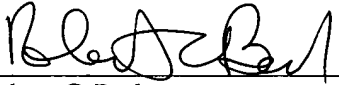
09/547,476

**PATENT**#6 A  
3/20  
RD.**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	<b>Graydon Ernest Beatty</b>	Examiner:	<b>Barry Pass</b>
Serial No.:	<b>09/547,476</b>	Group Art Unit:	<b>3737</b>
Filing Date:	<b>April 12, 2000</b>	Docket No.:	<b>1934</b>
Title	<b>Interface System for Endocardial Mapping Catheter</b>		

Date of Deposit: 3/3/03

I hereby certify that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231

Signature: Printed Name: Robert C. Beck**RECEIVED****MAR 19 2003**

TECHNOLOGY CENTER R3700

**RESPONSE**Assistant Commissioner for Patents  
Washington, DC 20231

This is responsive to the outstanding Office Action mailed October 1, 2002.  
Reconsideration and allowance of this application is respectfully solicited in view of the following amendments and remarks.

**AMENDMENTS**

Amended claims are presented in two versions in the accompanying documents. One version (titled "Replacement Claims") is a clean version of the claims, as the Applicant desires them to read upon entry of this Amendment. The other version (titled "Version with Markings to Show Changes Made") is a marked up version indicating changes made by this Amendment. In these amendments, claim 2 has been amended.

Replace the first paragraph of the Specification with the following:

Al --This application is a divisional of Ser. No. 09/005,105, filed Jan. 9, 1998 which is a divisional application of Ser. No. 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307 which is a national stage application of PCT/US93/09015, filed Sept. 23, 1992, which in turn claims priority from U.S.S.N. 07/950,448, filed Sept. 23, 1992, now U.S. Pat. No. 5,291,549 and U.S.S.N. 07/949,690, filed Sept. 23, 1992, now U.S. Pat. No. 5,311,866. Applicants claim priority to: 08/387,832, filed May 26, 1995, now U.S. Pat. No. 6,240,307; Ser. No. 08/376,067 filed Aug. 20 1995, now U.S. Pat. No. 5,553,611; and Ser. No. 08/178,128 filed Jan. 6, 1994, now abandoned.--

Kindly rewrite the claims to read as follows:

- A2
1. An interface system for monitoring passive electrodes and driving active electrodes on an endocardial mapping catheter, the interface system comprising:
    - a) a passive electrode interface adapted to monitor the passive electrodes;
    - b) an active electrode interface adapted to drive the active electrodes;
    - c) a computer interface adapted to allow computer monitoring of the passive electrodes and driving of the active electrodes.
    - d) a signal generator controlled by the computer interface, the signal generator electrically connected to the active electrode interface.
  2. The interface system of claim 1, further comprising:
    - e) a surface electrode interface adapted for electrical connection to surface electrodes.
  3. The interface system of claim 2, wherein the signal generator is further electrically connected to the surface electrode interface.
  4. The interface system of claim 3, further comprising
    - f) a therapy catheter interface adapted to electrically connect to electrodes on a therapy catheter.
  5. The interface system of claim 4, wherein the therapy catheter interface is electrically connected to the computer interface through a signal conditioner.